

10/1532451

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
3 June 2004 (03.06.2004)

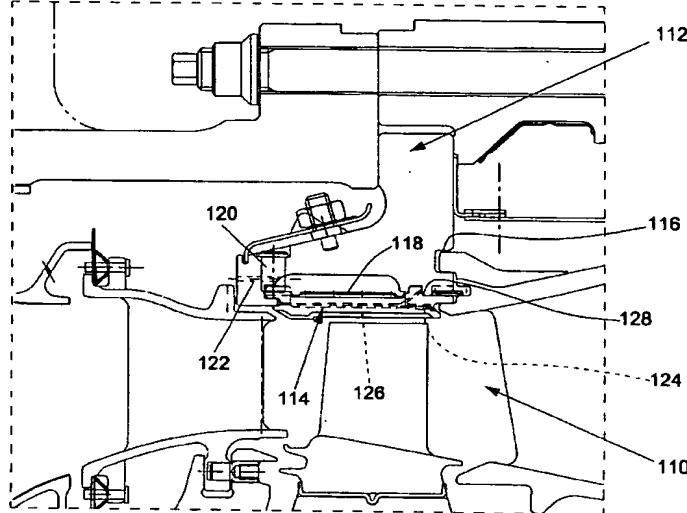
PCT

(10) International Publication Number
WO 2004/046510 A1

- (51) International Patent Classification⁷: **F01D 25/12**, (74) Agents: COPPO, Alessandro et al.; Ing. Barzano' & Zanardo Milano S.p.A., Via Borgonuovo, 10, I-20121 Milano (IT).
- (21) International Application Number: PCT/EP2003/012827 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 13 November 2003 (13.11.2003) (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (25) Filing Language: English (30) Priority Data: MI2002A002418 (31) Priority Date: 15 November 2002 (15.11.2002) IT
- (71) Applicant (*for all designated States except US*): NUOVO PIGNONE HOLDING S.P.A. [IT/IT]; Via F. Matteucci, 2, I-50127 Firenze (IT).
- (72) Inventor; and (75) Inventor/Applicant (*for US only*): IACOPETTI, Piero [IT/IT]; Via Aldo Moro, 8, I-51010 Uzzano (IT). Published: — with international search report

[Continued on next page]

(54) Title: SHROUD COOLING ASSEMBLY FOR A GAS TURBINE



WO 2004/046510 A1

(57) Abstract: An improved assembly (110) consisting of internal casing (112) and support device (114) for nozzles in a gas turbine stage, these nozzles being grouped together in sectors and each of these sectors being connected externally to an external casing of the gas turbine by means of the support device (114), this support device (114) being kept in position by the internal casing (112), there also being formed first cooling holes (122) on the internal casing (112) and second cooling holes (124) on the support device (114); the first cooling holes (122) of the internal casing (112) have an extension substantially parallel to the axis of the gas turbine.



- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.